

**COMBINED DECLARATION AND POWER OF ATTORNEY**

As a below named inventor, I hereby declare that:

This declaration is of the following type:

- [X] original  
[ ] divisional  
[ ] continuation  
[ ] continuation-in-part

**INVENTORSHIP IDENTIFICATION**

My residence, post office address and citizenship are as stated below next to my name. I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**TITLE OF INVENTION**

**"SELECTIVE ETCHING OF CARBON-DOPED LOW-K DIELECTRICS"**

**SPECIFICATION IDENTIFICATION**

The specification of which:

- [X] is attached hereto \_\_\_\_\_, under Serial No. (unknown), executed on even  
[ ] was filed on \_\_\_\_\_, date herewith; or \_\_\_\_\_ (as Serial No. not yet known)  
[ ] Express Mail No. \_\_\_\_\_  
[ ] and was amended on \_\_\_\_\_ (if applicable)  
[ ] was described and claimed in PCT international application no. \_\_\_\_\_ filed  
on \_\_\_\_\_ and as amended under PCT Article 19 on \_\_\_\_\_.

**ACKNOWLEDGEMENT OF REVIEW OF PAPERS AND DUTY OF CANDOR**

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose all information I know to be material to patentability in accordance with Title 37, Code of Federal Regulations, §1.56,

and which is material to the examination of this application; namely, information where there is a substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent, and

[ ] In compliance with this duty, there is attached an Information Disclosure Statement in accordance with 37 CFR §1.98.

**PRIORITY CLAIM (35 U.S.C. §119)**

I hereby claim foreign priority benefits under Title 35, United States Code, §119, of any provisional or any foreign application(s) for patent or inventor's certificate or of any PCT international application(s) designating at least one country other than the United States of America listed below, and have also identified below any foreign application(s) for patent or inventor's certificate or any PCT international application(s) designating at least one country other than the United States of America filed by me on the same subject matter having a filing date before that of the application(s) of which priority is claimed.

- No such applications have been filed.  
 Such applications have been filed as follows:

**A. Prior foreign/PCT application(s) filed within 12 mos. (6 mos. for design) prior to this application, and any priority claims under 35 U.S.C. §119**

<u>Country/PCT</u>	<u>Application No</u>	<u>Date Filed</u>	<u>Priority Claimed</u>
			[ ] Yes [ ] No
			[ ] Yes [ ] No
			[ ] Yes [ ] No

**B. All foreign application(s), if any, filed more than 12 mos. (6 mos. for design) prior to this U.S. application**

Country:  
Application No:  
Filing date:

**C. US Provisional applications filed within 12 months prior to this U.S. Application**

Application No:  
Filing date:

**PRIORITY CLAIM (35 U.S.C. §120)**

I hereby claim the benefit under Title 35, United States Code, §120, of any United States application(s) or PCT international application(s) designating the United States of America that is/are listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in that/those prior application(s) in the manner provided by the first paragraph of Title 35, United States Code, §112, I acknowledge the duty to disclose information that is material to the examination of this application (namely, information where there is substantial likelihood that a reasonable Examiner would consider it important in deciding whether to allow the application to issue as a patent) which occurred between the filing date of the prior application(s) and the national or PCT international filing date of this application.

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<u>Serial No.</u>	<u>Filing Date</u>	<u>Patented</u>	<u>Status</u>	<u>Pending</u>	<u>Abandoned</u>
-------------------	--------------------	-----------------	---------------	----------------	------------------

## POWER OF ATTORNEY

I hereby appoint the following attorneys and/or agents to prosecute this application and transact all business in the Patent and Trademark Office connected therewith:

Peter J. Sgarbossa	Registration No. 25,610
Donald Verplancken	Registration No. 33,217
Lawrence Edelman	Registration No. 25,226
Michael B. Einschlag	Registration No. 29,301
Raymond Kam-On Kwong	Registration No. 37,165
James C. Wilson	Registration No. 35,412
Joseph Bach	Registration No. 37,771
Robert W. Mulcahy	Registration No. 25,436
Walter Benjamin Glenn	Registration No. 44,713
Francis E. Morris	Registration No. 24,615

**Send correspondence to:**      **Direct telephone calls to:**

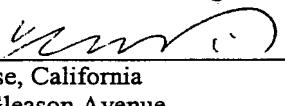
Patent Counsel, MS/2061  
Legal Affairs Dept.  
Applied Materials, Inc.  
P. O. Box 450A  
Santa Clara, CA 95052.

**Francis E. Morris**  
Phone No. (650) 493-4935

## DECLARATION

*I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and, further, that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Sec. 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patents issued thereon.*

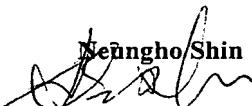
Full name of sole or first inventor:      **Yunsang Kim**

Inventor's signature:  Date: 6-29-03  
Residence: San Jose, California  
Post Office Address: 3648 Gleason Avenue  
San Jose, CA 95130

U.S.A.

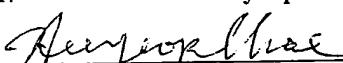
Country of Citizenship: Korea South

Full name of second inventor:      **Nenngho Shin**

Inventor's signature:  Date: 6/9/03  
Residence: San Jose, California  
Post Office Address: 4325 Norwalk Dr. R-105  
San Jose, CA 95129

U.S.A.

Country of Citizenship: Korea South

Full name of third inventor: **Heeyeop Chae**  
Inventor's signature:  Date: 6-9-2003  
Residence: San Jose, California  
Post Office Address: 1657 Tawnygate Way  
San Jose, CA 95124  
U.S.A. Country of Citizenship: Korea South

Full name of fourth inventor: **Joey Chiu**  
Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: Chung-Li City, Taoyuan County, Taiwan  
Post Office Address: No. 226, Ming-Ter Road  
Chung-Li City, Taoyuan County, Taiwan  
TAIWAN Country of Citizenship: Taiwan

Full name of fifth inventor: **Yan Ye**  
Inventor's signature:  Date: 6-09-2003  
Residence: Saratoga, California  
Post Office Address: 13271 Via Arriba Drive  
Saratoga, CA 95070  
U.S.A. Country of Citizenship: USA

Full name of sixth inventor: **Fang Tian**  
Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: Fremont, California  
Post Office Address: 750 Navajo Way  
Fremont, CA 94539  
U.S.A. Country of Citizenship: USA

Full name of seventh inventor: **Xiaoye Zhao**  
Inventor's signature:  Date: 6/19/03  
Residence: Mountain View, California  
Post Office Address: 117 Whits Road  
Mountain View, CA 94040  
U.S.A. Country of Citizenship: USA

Full name of eighth inventor:  
Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence:  
Post Office Address:  
U.S.A. Country of Citizenship:

**Full name of ninth inventor:**

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence:

Post Office Address:

U.S.A.

Country of Citizenship:

**(Declaration ends with this page)**

**COMBINED DECLARATION AND POWER OF ATTORNEY**

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- original
- divisional
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			[ ] Yes [ ] No
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			[ ] Yes [ ] No

**B. All foreign application(s), if any, filed more than 12 mos. (6 mos. for design) prior to this U.S. application**

Country:  
Application No:  
Filing date:

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Application No:  
Filing date:

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### Send correspondence to:

Patent Counsel, MS/2061  
Legal Affairs Dept.  
Applied Materials, Inc.  
P. O. Box 450A  
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**Francis E. Morris**  
Phone No. (650) 493-4935

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Full name of sole or first inventor: **Yunsang Kim**

Inventor's signature: \_\_\_\_\_ Residence: San Jose, California Date: \_\_\_\_\_  
Post Office Address: 3648 Gleason Avenue  
San Jose, CA 95130

U.S.A.

Country of Citizenship: Korea South

Full name of second inventor: **Neungho Shin**

Inventor's signature: \_\_\_\_\_ Residence: San Jose, California Date: \_\_\_\_\_  
Post Office Address: 4325 Norwalk Dr. R-105  
San Jose, CA 95129

U.S.A.

Country of Citizenship: Korea South

Full name of **third** inventor: **Heeyeop Chae**  
Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: San Jose, California  
Post Office Address: 1657 Tawnygate Way  
San Jose, CA 95124  
U.S.A. Country of Citizenship: Korea South

Full name of **fourth** inventor: **Joey Chiu**  
Inventor's signature: *Joey Chiu* Date: *7/18/03*  
Residence: Chung-Li City, Taoyuan County, Taiwan  
Post Office Address: No. 226, Ming-Ter Road  
Chung-Li City, Taoyuan County, Taiwan  
TAIWAN Country of Citizenship: Taiwan

Full name of **fifth** inventor: **Yan Ye**  
Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: Saratoga, California  
Post Office Address: 13271 Via Arriba Drive  
Saratoga, CA 95070  
U.S.A. Country of Citizenship: USA

Full name of **sixth** inventor: **Fang Tian**  
Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: Fremont, California  
Post Office Address: 750 Navajo Way  
Fremont, CA 94539  
U.S.A. Country of Citizenship: USA

Full name of **seventh** inventor: **Xiaoye Zhao**  
Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: Mountain View, California  
Post Office Address: 117 Whits Road  
Mountain View, CA 94040  
U.S.A. Country of Citizenship: USA

Full name of **eighth** inventor:  
Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence:  
Post Office Address:  
U.S.A. Country of Citizenship:

Full name of **ninth** inventor:

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: \_\_\_\_\_  
Post Office Address: \_\_\_\_\_

U.S.A.

Country of Citizenship:

(Declaration ends with this page)

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			Pending	Abandoned

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Michael B. Einschlag	Registration No. 29,301
Raymond Kam-On Kwong	Registration No. 37,165
James C. Wilson	Registration No. 35,412
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Robert W. Mulcahy	Registration No. 25,436
Walter Benjamin Glenn	Registration No. 44,713
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Francis E. Morris

Phone No. (650) 493-4935

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Full name of sole or first inventor: Yunsang Kim

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: San Jose, California  
Post Office Address: 3648 Gleason Avenue  
San Jose, CA 95130

U.S.A.

Country of Citizenship: Korea South

Full name of second inventor: Naungho Shin

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: San Jose, California  
Post Office Address: 4325 Norwalk Dr. R-105  
San Jose, CA 95129

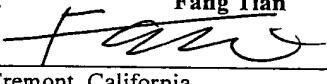
USA

Country of Citizenship: Korea South

Full name of third inventor: **Heeyeop Chae**  
Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: San Jose, California  
Post Office Address: 1657 Tawnygate Way  
San Jose, CA 95124  
U.S.A. Country of Citizenship: Korea South

Full name of fourth inventor: **Joey Chiu**  
Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: Chung-Li City, Taoyuan County, Taiwan  
Post Office Address: No. 226, Ming-Ter Road  
Chung-Li City, Taoyuan County, Taiwan  
TAIWAN Country of Citizenship: Taiwan

Full name of fifth inventor: **Yan Ye**  
Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: Saratoga, California  
Post Office Address: 13271 Via Arriba Drive  
Saratoga, CA 95070  
U.S.A. Country of Citizenship: USA

Full name of sixth inventor: **Fang Tian**  
Inventor's signature:  Date: 6/15/2003  
Residence: Fremont, California  
Post Office Address: 750 Navajo Way  
Fremont, CA 94539  
U.S.A. Country of Citizenship: USA

Full name of seventh inventor: **Xiaoye Zhao**  
Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence: Mountain View, California  
Post Office Address: 117 Whits Road  
Mountain View, CA 94040  
U.S.A. Country of Citizenship: USA

Full name of eighth inventor:  
Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_  
Residence:  
Post Office Address:  
U.S.A. Country of Citizenship:

Full name of **ninth** inventor:

Inventor's signature: \_\_\_\_\_ Date: \_\_\_\_\_

Residence:

Post Office Address:

U.S.A.

Country of Citizenship:

**(Declaration ends with this page)**

## RECORDATION FORM COVER SHEET

U.S. Department of Commerce  
Patent And Trademark Office

## PATENTS ONLY

To the Honorable Commissioner of Patents and Trademarks: Please record the attached original document or copy thereof.

1. Name of conveying party(ies):

- |                 |           |
|-----------------|-----------|
| 1. Yunsang Kim  | Date      |
| 2. Neungho Shin | 6/09/2003 |
| 3. Heeyeop Chae | 6/09/2003 |
| 4. Joey Chiu    | 7/18/2009 |
| 5. Yan Ye       | 6/09/2003 |
| 6. Fang Tian    | 6/15/2003 |
| 7. Xiaoye Zhao  | 6/09/2003 |

Additional name(s) of conveying party(ies) attached? Yes  No

3. Nature of conveyance:

- Assignment       Merger  
 Security Agreement       Change of Name  
 Other

Execution Date: SEE ABOVE

2. Name and address of receiving party(ies):

Name: Applied Materials, Inc.  
A Corporation of the State of Delaware  
Street Address: 3050 Bowers Ave  
Internal Address: M/S 2061  
City: Santa Clara State: CA Zip: 95054

Additional name(s) & address(es) attached? Yes  No

4. Application number(s) or registration number(s):

If this document is being filed together with a new application, the execution date of the application is: August 1, 2003 (Date of Filing)

A. Patent Application No.(s)

B. Patent No.(s)

Additional numbers attached? Yes  No

5. Name and address of party to whom correspondence concerning document should be mailed:

Name: APPLIED MATERIALS, INC.Internal Address: PATENT COUNSEL, M/S 2061Street Address: P.O. Box 450-ACity: Santa Clara State: CA Zip: 950526. Total number of applications and patents involved: 17. Total fee (37 C.F.R. 3.41) \$ 40.00 Enclosed Authorized to be charged to deposit account 50-1074

8. Deposit account number:

50-1074

9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

ROBERT W. MULCAHY, Reg. No. 25,436

Name of Person Signing

Signature

8/11/03

Date

Total number of pages including cover sheet, attachments and document: 10

Mail documents to be recorded with required cover sheet information to:  
Commissioner of Patents & Trademarks, Box Assignments  
Washington, D.C. 20231

**ASSIGNMENT FOR APPLICATION FOR PATENT**

WHEREAS:

Names and Addresses  
of Inventors:

1)	Yunsang Kim 3648 Gleason Avenue San Jose, CA 95130	2)	Neungho Shin 4325 Norwalk Dr. R-105 San Jose, CA 95129
3)	Heeyeop Chae 1657 Tawnygate Way San Jose, CA 95124	4)	Joey Chiu No. 226, Ming-Ter Road Chung-Li City, Tauyuan County, Taiwan
5)	Yan Ye 13271 Via Arriba Drive Saratoga, CA 95070	6)	Fang Tian 750 Navajo Way Fremont, CA 94539
7)	Xiaoye Zhao 117 Whits Road Mountain View, CA 94040	8)	
9)			

(hereinafter referred to as Assignors), have invented a certain invention entitled:

***"Selective Etching of Carbon-Doped Low-K Dielectrics"***

*6/2008  
11.4.02*  
for which application for Letters Patent in the United States was filed on @ ,  
under Serial No. @ , executed on even date herewith; and

WHEREAS, Applied Materials, Inc., a corporation of the State of Delaware, having a place of business at 3050 Bowers Avenue, Santa Clara, California 95054 (hereinafter referred to as Assignee), is desirous of acquiring the entire right, title and interest in and to said application (hereinafter referred to as Application), and the invention disclosed therein (hereinafter referred to as Invention), and in and to all embodiments of the Invention, heretofore conceived, made or discovered by said Assignors, and in and to any and all patents, inventor's certificates and other forms of protection (hereinafter referred to as Patents) thereon granted in any and all countries and groups of countries.

NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Assignors to have been received in full from said Assignee:

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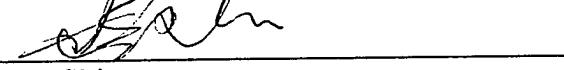
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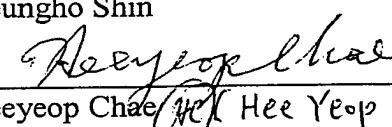
1) 06-09, 2003

  
Yunsang Kim

2) 06-09, 2003

  
Neungho Shin

3) 06-09, 2003

  
Heeyeop Chae (Hee Yeop Chae ; legal name)

4) \_\_\_\_\_, 2003

  
Joey Chiu

- 5) 6-9, 2003 YY YY  
Yan Ye
- 6) \_\_\_\_\_, 2003 \_\_\_\_\_  
Fang Tian
- 7) 6/9, 2003 Xiao Ye  
Xiaoye Zhao
- 8) \_\_\_\_\_, 2003 \_\_\_\_\_
- 9) \_\_\_\_\_, 2003 \_\_\_\_\_

**ASSIGNMENT FOR APPLICATION FOR PATENT**

WHEREAS:

Names and Addresses  
of Inventors:

1)	Yunsang Kim 3648 Gleason Avenue San Jose, CA 95130	2)	Neungho Shin 4325 Norwalk Dr. R-105 San Jose, CA 95129
3)	Heeyeop Chae 1657 Tawnygate Way San Jose, CA 95124	4)	Joey Chiu No. 226, Ming-Ter Road Chung-Li City, Tauyuan County, Taiwan
5)	Yan Ye 13271 Via Arriba Drive Saratoga, CA 95070	6)	Fang Tian 750 Navajo Way Fremont, CA 94539
7)	Xiaoye Zhao 117 Whits Road Mountain View, CA 94040	8)	
9)			

(hereinafter referred to as Assignors), have invented a certain invention entitled:

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under Serial No. @ , executed on even date herewith; and

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3)	<u>                        </u> , 2003	<u>                        </u> Heeyeop Chae
4)	<u>7-18-</u> , 2003	<u>                        </u> Joey Chiu

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Xiaoye Zhao
- 8) \_\_\_\_\_, 2003  
\_\_\_\_\_
- 9) \_\_\_\_\_, 2003  
\_\_\_\_\_



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RECD MAR 08 2004

**UNITED STATES PATENT AND TRADEMARK OFFICE**

**UNDER SECRETARY OF COMMERCE FOR INTELLECTUAL PROPERTY AND  
DIRECTOR OF THE UNITED STATES PATENT AND TRADEMARK OFFICE**

MARCH 01, 2004

C PTAS

A standard linear barcode is positioned horizontally across the page, consisting of vertical black bars of varying widths on a white background.

\*102525524A\*

APPLIED MATERIALS, INC.  
ROBERT W. MULCAHY  
PATENT COUNSEL, M/S 2061  
P.O. BOX 450-A  
SANTA CLARA, CA 95052

MAR 10 2004

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 08/01/2003

REEL/FRAME: 014376/0529  
NUMBER OF PAGES: 10

BRIEF: ASSIGNMENT OF ASSIGNEE'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR: KIM, YUNSANG DOC DATE: 06/09/2003

ASSIGNOR: SHIN, NEUNGHO DOC DATE: 06/09/2003

ASSIGNOR: CHAE, HEEYEOP DOC DATE: 06/09/2003

ASSIGNOR: CHILL, JOEY DOC DATE: 07/18/2003

ASSIGNOR: YEE YAN DOC DATE: 06/09/2003

ASSIGNOR: TIAN FANG DOC DATE: 06/15/2003

014376/0529 PAGE 2

ASSIGNOR:  
ZHAO, XIAOYE

DOC DATE: 06/09/2003

ASSIGNEE:  
APPLIED MATERIALS, INC.  
3050 BOWERS AVE  
M/S 2061  
SANTA CLARA, CALIFORNIA 95054

SERIAL NUMBER: 10632873  
PATENT NUMBER:

FILING DATE:  
ISSUE DATE:

JEFFREY OLSEN, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

08-15-2003

FORM PTO-1595  
(Rev. 6-93)  
OMB No. 0651-0011 (exp. 4/94)

RE

To the Honorable Commissioner of Patents and Tm

U.S. Department of Commerce  
Patent And Trademark Office

Name of conveying party(ies):

- |    |                               |           |
|----|-------------------------------|-----------|
| 1. | Name of conveying party(ies): | Date      |
| 1. | Yunsang Kim                   | 8-1-03    |
| 2. | Neungho Shin                  | 6/09/2003 |
| 3. | Heeyeop Chae                  | 6/09/2003 |
| 4. | Joey Chiu                     | 7/18/2009 |
| 5. | Yan Ye                        | 6/09/2003 |
| 6. | Fang Tian                     | 6/15/2003 |
| 7. | Xiaoye Zhao                   | 6/09/2003 |

Additional name(s) of conveying party(ies) attached? Yes  No

## 3. Nature of conveyance:

- |  |                |
|--|----------------|
| <input checked="" type="checkbox"/> Assignment | Merger         |
| <input type="checkbox"/> Security Agreement    | Change of Name |
| <input type="checkbox"/> Other                 |                |

Execution Date: SEE ABOVE

## 4. Application number(s) or registration number(s):

10632873

August 1, 2003

(Date of Filing)

If this document is being filed together with a new application, the execution date of the application is:

## A. Patent Application No.(s)

## B. Patent No.(s)

Additional numbers attached? Yes  No

## 5. Name and address of party to whom correspondence concerning document should be mailed:

Name: APPLIED MATERIALS, INC.

Internal Address: PATENT COUNSEL, M/S 2061

Street Address: P.O. Box 450-A

City: Santa Clara State: CA Zip: 95052

## 6. Total number of applications and patents involved: 1

7. Total fee (37 C.F.R. 3.41) \$40.00

 Enclosed Authorized to be charged to deposit account 50-1074

## 8. Deposit account number:

50-1074

DO NOT USE THIS SPACE

## 9. Statement and signature.

To the best of my knowledge and belief, the foregoing information is true and correct and any attached copy is a true copy of the original document.

ROBERT W. MULCAHY, Reg. No. 25,436

Name of Person Signing

Signature

Date

8/1/03

Total number of pages including cover sheet, attachments and document: 10

08/14/2003 ECOOPER 00000019 501074 10632873 Mail documents to be recorded with required cover sheet information to:  
 Commissioner of Patents & Trademarks, Box Assignments  
 Washington, D.C. 20231

01 FC:8021

40.00 DA

**ASSIGNMENT FOR APPLICATION FOR PATENT**

WHEREAS:

Names and Addresses  
of Inventors:

1)	Yunsang Kim 3648 Gleason Avenue San Jose, CA 95130	2)	Neungho Shin 4325 Norwalk Dr. R-105 San Jose, CA 95129
3)	Heeyeop Chae 1657 Tawnygate Way San Jose, CA 95124	4)	Joey Chiu No. 226, Ming-Ter Road Chung-Li City, Tauyuan County, Taiwan
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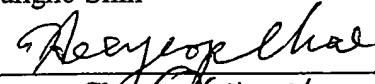
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Yunsang Kim

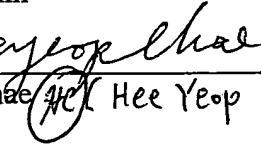
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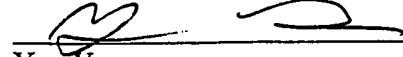
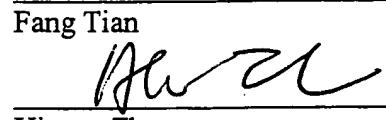
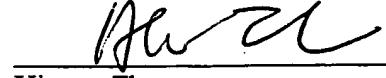
  
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NOW, THEREFORE, in consideration of good and valuable consideration acknowledged by said Assignors to have been received in full from said Assignee:

1. Said Assignors hereby sell, assign, transfer and convey to Assignee the full and exclusive right, title and interest (a) in and to said Application and said Invention; (b) in and to all rights to apply for patents on said Invention in any and all countries pursuant to the International Convention for the Protection of Industrial Property or otherwise; (c) in and to any and all Applications filed and any and all Patents granted on said Invention in any and all countries and groups of countries, including each and every Application filed and each and every Patent granted on any application which is a division, substitution, or continuation of said Application; and (d) in and to each and every reissue or extension of any of said Patents.

2. Said Assignors hereby covenant and agree to cooperate with said Assignee to enable said Assignee to enjoy to the fullest extent the right, title and interest to said Invention herein conveyed in any and all countries and groups of countries. Such cooperation by said Assignors shall include prompt production of pertinent facts and documents, giving testimony, execution of petitions, oaths, specifications, declarations or other papers, and other assistance all to the extent deemed necessary or desirable by said Assignee (a) for perfecting in said Assignee the right, title and interest herein conveyed; (b) for prosecuting any of said applications; (c) for filing and prosecuting substitute, divisional, continuing or additional applications covering said Invention; (d) for filing and prosecuting applications for reissuance of any of said Patents; (e) for interference or other priority proceedings involving said Invention; and (f) for legal proceedings involving said Invention and any application therefor and any Patents granted thereon, including without limitation opposition proceedings, cancellation proceedings, priority contests, public use proceedings, infringement actions and court actions; provided, however, that the expense incurred by said Assignors in providing such cooperation shall be paid for by said Assignee.

3. The term and covenants of this agreement shall inure to the benefit of said Assignee, its successors, assigns and other legal representatives, and shall be binding upon said Assignors, their respective heirs, legal representatives and assigns.

4. Said Assignors hereby warrant and represent that they have not entered and will not enter into any assignment, contract, or understanding in conflict herewith.

IN WITNESS WHEREOF, the said Assignors have executed and delivered this instrument to said Assignee on the dates indicated below.

1)	_____	, 2003	_____ Yunsang Kim
2)	_____	, 2003	_____ Neungho Shin
3)	_____	, 2003	_____ Heeyeop Chae
4)	_____	, 2003	_____ Joey Chiu

- 5) \_\_\_\_\_, 2003  
Yan Ye
- 6) \_\_\_\_\_, 2003  
Fang Tian
- 7) \_\_\_\_\_, 2003  
Xiaoye Zhao
- 8) \_\_\_\_\_, 2003
- 9) \_\_\_\_\_, 2003